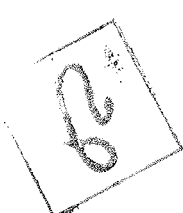
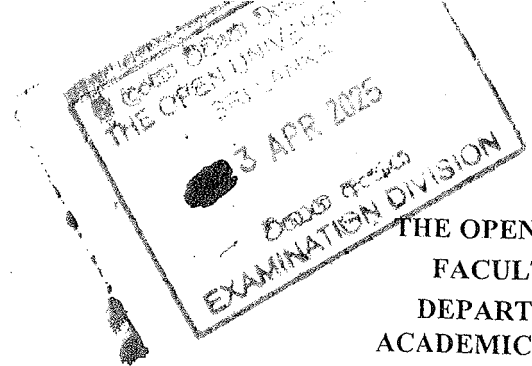


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THE OPEN UNIVERSITY OF SRI LANKA  
FACULTY OF HEALTH SCIENCES  
DEPARTMENT OF BASIC SCIENCES  
ACADEMIC YEAR 2024/2025 – SEMESTER I

BACHELOR OF PHARMACY HONOURS  
BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS  
BSU3230 - HUMAN ANATOMY – LEVEL 3  
FINAL EXAMINATION

DURATION: TWO HOURS

DATE: 23<sup>rd</sup> April 2025

TIME: 09.30 AM – 11.30 AM

INDEX NO: .....

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**Part B – Structured Essay Questions**

*(40 marks)*

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**Write answers in the space provided.**

1. a) What are the three axes of rotation in shoulder joint? (3 marks)

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b) Name the four rotator cuff muscles. (8 marks)

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c) List two hormones produced by the male and female reproductive systems. (4 marks)

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2. a) Identify the type of epithelium found in the following regions of the body. (4 marks)

Region	Epithelium
I. Epidermis of the skin	
II. Respiratory tract	
III. Blood capillaries	
IV. Small intestine	

- b) Compare meiosis and mitosis, highlighting their key differences in terms of process, outcomes and biological significance. (6 marks)

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- c) List 6 major types of connective tissues. (6 marks)

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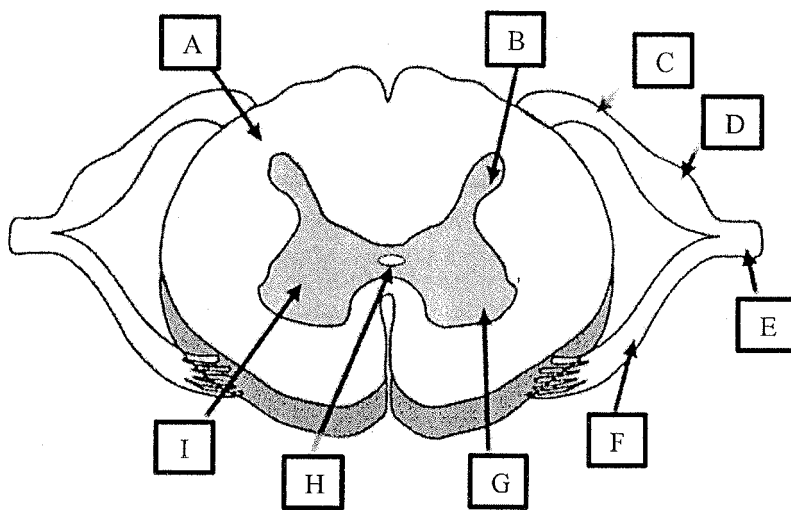
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d) The structure of the spinal cord cross section is given below. Identify the regions in A to I (9 marks)



A - .....  
 B - .....  
 C - .....  
 D - .....  
 E - .....

F - .....  
 G - .....  
 H - .....  
 I - .....

INDEX NO:.....

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**Part C – Essay Questions***(40 marks)*

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**Answer all questions.**

**Write answers in the books provided.**

1. a) Using a clearly labelled diagram that shows the fluid mosaic model of the cell membrane explain the roles of its major components in maintaining membrane structure and function. (10 marks)
- b) Briefly describe the structure of a typical neuron. (10 marks)
2. a) Describe the Oogenesis process. (10 marks)
- b) Briefly describe the major regions of the large intestine. (10 marks)